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|-------|----|--------|
|       |    |        |



Application No.

09/830,103

Examiner

Alexis Wachtel

Applicant(s)

MALSON ET AL

Art Unit

1764

Rejected Allowed

(Through numeral)
Cancelled

Restricted

Non-Elected N

Interference

**Appeal** Α

0

Objected

|             |          |          |              |          |          |           |          |  |  |              |     |          |          |                |          |              |              |                |  |          | _         |
|-------------|----------|----------|--------------|----------|----------|-----------|----------|--|--|--------------|-----|----------|----------|----------------|----------|--------------|--------------|----------------|--|----------|-----------|
|             |          | r        |              |          |          |           |          |  |  |              | 1 1 |          |          | <del></del>    |          |              |              |                |  |          |           |
| Cla         | im       |          |              |          | 1        | Date      | е        |  | _  | _            |     | Cla      | im       |                |          |              |              | Date           | }  | r        | _         |
| Final       | Original | 6/8/04   |              |          |          |           |          |  |  |              |     | Final    | Original |                |          |              |              |                |  |          |           |
|             | 1        | 1        | <del> </del> |          | ╁        | ├         |          |  |  |              | 1 1 |          | 51       |                |          |              |              |                | <del>                                     </del> |          | T         |
| <b>—</b>    | 2        | V        |              | _        | -        | <u> </u>  | ┢        |  |  | $\vdash$     | 1   |          | 52       | _              |          | _            | ┢            | ļ              | ┢  | Т        | T         |
| -           | 3        | Ì        |              | $\vdash$ |          |           | ┢        | <del>                                     </del> |  |              | 1   |          | 53       |                |          |              | $\vdash$     |                | Т  |          | r         |
|             | 4        | V        |              |          |          |           | <u> </u> | <b></b>  |  | Н            | 1   |          | 54       |                |          |              | -            |                | Г  | _        | -         |
|             | 5        | V        | -            | -        |          | <b>†</b>  | ┪        |  |  |              | 1 1 |          | 55       |                |          |              |              |                | T  |          | ┢         |
|             | 6        | 1        |              | _        | 1        | 1         | T        |  |  | 1            | 1   |          | 56       |                |          |              |              |                |  |          | Г         |
|             | 7        | 1        |              |          |          | 1         | Г        |  |  |              | 1   |          | 57       |                |          |              |              |                |  |          | Г         |
|             | 8        | 1        | _            |          |          |           | T        | İ  |  |              | 1   |          | 58       |                |          |              |              |                |  |          | Γ         |
|             | . 9      | 1        | Г            |          |          |           |          |  |  |              | 1   |          | 59       |                |          |              |              |                |  |          | Γ         |
|             | 10       | 1        | Г            |          |          | Г         |          | 1  |  |              | 1   |          | 60       |                |          |              |              |                |  | П        |           |
|             | 11       | 1        | Γ            |          |          |           |          |  |  |              | 1   |          | 61       |                |          |              |              |                |  |          |           |
|             | 12       | 1        |              |          |          |           |          |  |  |              | ]   |          | 62       |                |          |              |              |                |  |          | Γ         |
|             | 13       | 1        |              |          |          | Ī         | Γ        |  |  |              |     |          | 63       |                |          |              |              |                |  |          |           |
|             | 14       | 1        |              |          |          | T         |          |  |  | Π            | ]   |          | 64       |                |          |              |              |                |  |          |           |
|             | 15       | 1        |              |          |          |           |          |  |  |              | ]   |          | 65       |                |          |              |              |                |  |          | L         |
|             | 16       |          |              |          |          |           |          |  |  |              |     |          | 66       |                |          |              |              |                |  |          |           |
|             | 17       |          |              |          |          |           |          |  |  |              |     |          | 67       |                |          |              |              |                |  |          |           |
|             | 18       |          |              |          |          |           |          |  |  |              |     |          | 68       |                |          |              |              |                | <u></u>  |          |           |
|             | 19       |          |              |          |          |           |          |  |  |              |     | 2        | 69       |                |          |              |              | _              | L  |          | L         |
|             | 20       |          |              |          | L        | _         | <u> </u> |  |  |              |     |          | 70       |                |          |              | <u> </u>     |                | _  |          | L         |
|             | 21       |          |              |          |          | L         |          |  |  |              |     |          | 71       |                |          |              |              | L              | _  | L        | L         |
|             | 22       | <u> </u> |              |          | L        |           | ļ.,      |  |  | <u> </u>     |     |          | 72       |                |          | <u> </u>     | ļ            | ļ              |  | _        | L         |
|             | 23       | L        |              | <u></u>  | <u> </u> | <u> </u>  | _        |  |  | <u> </u>     |     |          | 73       |                |          | <u> </u>     | L_           | lacksquare     | ļ  | _        | L         |
|             | 24       | _        | _            | _        | _        | <u> </u>  | <u> </u> |  | <u> </u>   | <u> </u>     |     |          | 74       | _              | _        |              | _            | L              | <u> </u>   | 1_       | L         |
|             | 25       | _        | <u> </u>     |          |          | ļ         | <u> </u> | <u> </u>   | <u> </u>   |              |     |          | 75       | <u> </u>       | L        | <u> </u>     | <u> </u>     | _              | <u> </u>   | ↓_       | ╀         |
|             | 26       | <u> </u> | <u> </u>     | _        |          | _         | _        | <u> </u>   | <u> </u>   | <u> </u>     |     |          | 76       | ╙              |          |              | ļ            | ļ              | ↓_   | <u> </u> | L         |
|             | 27       | <u> </u> | Ļ.           | <u> </u> | ١        | ╄         | ┞        | <b> </b>   | _  | -            |     |          | 77       | _              | L        | ļ            | <u> </u>     | ļ              | ــــ   | ļ        | ╀         |
| <u> </u>    | 28       | ļ        | <u> </u>     | ļ        | ـ        | ↓_        |          | <u> </u>   | <u> </u>   | ļ            | 1   |          | 78       | -              |          | _            | <u> </u>     | <u> </u>       | ╄  | ╙        | Ļ         |
|             | 29       |          | ┞-           | <u> </u> | <u> </u> | ↓_        | ┡        | ـ  | <u> </u>   | <u> </u>     | 4   | <u> </u> | 79       | <del> </del> _ | ļ        |              | <b> </b>     | _              | _  | 1        | ╀         |
| <u> </u>    | 30       | ┺        | <u> </u>     | ļ.,      | <u> </u> | ╄         | <u> </u> | <del> </del>                                     | ┡  | <u> </u>     |     |          | 80       | <u> </u>       | ļ        | _            | <del> </del> | <del> </del> _ | <del> </del>                                     |          | ╀         |
|             | 31       | ļ.,      | ļ            | ļ        | ↓_       | 4_        | <b> </b> | ┡  | <u> </u>   | <del> </del> | -   |          | 81       | ┝              |          | <u> </u>     | ┝            | _              | ╄  | ₩        | ╀         |
|             | 32       |          | ├            | ļ        | ╀        | <b>-</b>  | 1        | 1  | <u> </u>   | ╀            | -   |          | 82       | <del> </del>   |          | <del> </del> | ├-           |                | ₩  | ┼-       | ╀         |
|             | 33       |          | ┡            |          | ⊢        | <u> </u>  | -        | ├-   | -  | -            | 1   |          | 83       | ├-             |          | <u> </u>     | -            | <b>├</b>       | ₩  | ├-       | ╀         |
|             | 34       | ╄        |              | -        | ╁        | <b>-</b>  | ┾        | ┼—   | <del> </del>                                     | ╁            | -   | -        | 84<br>85 | -              | -        | -            | -            | ┢┈             | ╁  | ┼        | ╀         |
| -           | 35       | +        | ┼            | -        | $\vdash$ | +-        | $\vdash$ | +-   | +  | +-           | 1   | ├        | 86       | ₩              | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$       | $\vdash$   | ┼        | +         |
| <del></del> | 36<br>37 | +-       | <del> </del> | $\vdash$ | +-       | $\vdash$  | ╁        | ╁  | +-   | +-           | 1   | <u> </u> | 87       | <del> </del>   | $\vdash$ | $\vdash$     | $\vdash$     | $\vdash$       | $\vdash$   | $\vdash$ | +         |
| <u> </u>    | 38       | +        | $\vdash$     | $\vdash$ | $\vdash$ | +         | +        | +-   | ┼  | -            | 1   | <b> </b> | 88       | <del> </del>   |          | -            | ┼            | ┼—             | +  | +-       | +         |
|             | 39       | +        | <del> </del> | ╀        | ╁        | +         | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$     | +   | -        | 89       | <del> </del> - |          | $\vdash$     |              | +-             | +  | +-       | ╁         |
|             | 40       | $\vdash$ |              | +-       | +        | +         | $\vdash$ | 1-   | +  | ╁╾           | 1   | <b></b>  | 90       | ┼              | -        |              | ┼            | +-             | +  | +-       | +         |
| -           | 41       | +        | +            | $\vdash$ | +        | +         | +        | ╫  | $\vdash$   | ┼            | ┨   | l        | 91       | 1              | $\vdash$ | $\vdash$     |              | $\vdash$       | +  | +-       | +         |
|             | 42       | +-       | -            | ╁        | $\vdash$ | +-        | ╁╌       | ╁┈   | ╁╌   | ╁            | 1   | $\vdash$ | 92       | 1              |          |              |              | ╁╌             | ╁  | ╁╌       | t         |
|             | 43       | +        | 1            | $\vdash$ | +        | +         | +        | ╁  | <del>                                     </del> | +            | 1   |          | 93       | 1              | $\vdash$ | -            |              | ┢              | +  | +        | 十         |
|             | 44       | +        | +            | $\vdash$ | H        | +-        | +        | +-   | $t^-$  | +            | 1   | <u> </u> | 94       | 1              |          |              | 1            | 1              | +  | +        | $\dagger$ |
| -           | 45       | +        | 1            | $\vdash$ | $\vdash$ | +         | +        | t  | t  | $t^-$        | 1   |          | 95       | T              |          | $\vdash$     | 1-           |                | +  | +        | t         |
| -           | 46       | +-       | +            | $\vdash$ | $\vdash$ | +         | 十        | †  | 1  | $t^-$        | 1   |          | 96       | t              |          | $\vdash$     | t            | 1              | +  | t        | $\dagger$ |
|             | 47       | +        | +-           | 1        | t        | $\dagger$ | T        | $\top$   | 1  | $\vdash$     | 1   |          | 97       | $t^-$          |          | <del> </del> | 1            |                | †  | t        | $\dagger$ |
|             | 48       | †        | 1-           | t        | t        | T         | †        | T  | $t^{-}$  | T            | 1   |          | 98       | T              | _        | $\vdash$     | 1            | 1              | 1  | +        | t         |
|             | 49       | +        | 1            | 1        | t        | 1-        | T        | ╁┈   | T  | t            | 1 . | <u> </u> | 99       | $\vdash$       |          |              | 1            | T              | +  | T        | t         |
|             | 50       | +        | 1            | †-       | +        | +         | T        | †  |  | t            | 1   |          | 100      | 1              |          |              | t            | $\vdash$       | T  | +        | t         |
| L           |          |          | _            | ٠        | ٠        | Ц         |          |  | 4  | 1            | _   | ——       |          | 1              | 1        | ı            | 1            | -              |  |          |           |

| Claim    |          | Date     |          |          |  |  |                |          |  |                |  |  |
|----------|----------|----------|----------|----------|--|--|----------------|----------|--|----------------|--|--|
| Final    | Original |          |          |          |  |  |                |          |  |                |  |  |
|          | 51       |          |          |          |  |  |                | _        |  |                |  |  |
|          | 52       | $\neg$   |          |          |  |  |                |          |  |                |  |  |
|          | 53       |          |          |          |  |  |                |          |  |                |  |  |
|          | 54       |          |          |          |  |  |                |          |  |                |  |  |
|          | 55       |          |          |          |  |  |                |          |  |                |  |  |
|          | 56       |          |          |          |  |  |                |          |  |                |  |  |
|          | 57       | _        |          |          |  |  |                |          | _  |                |  |  |
|          | 58       |          |          |          |  | _  |                | _        |  |                |  |  |
|          | 59<br>60 | $\vdash$ |          |          |  |  |                |          |  |                |  |  |
|          | 61       | _        |          |          | _  |  | H              |          | <u> </u>   |                |  |  |
|          | 62       | -        |          |          | -  | <del> </del>                                     | $\vdash$       |          | ┢  |                |  |  |
|          | 63       |          |          | -        |  |  |                |          | -  | -              |  |  |
|          | 64       |          |          | $\vdash$ | _  |  |                |          |  |                |  |  |
|          | 65       |          |          |          |  |  |                |          |  |                |  |  |
|          | 66       |          |          |          |  |  |                |          |  |                |  |  |
|          | 67       |          |          |          |  |  |                |          |  |                |  |  |
|          | 68       |          |          |          |  |  |                |          |  |                |  |  |
| 2        | 69       |          |          |          | L  |  |                |          |  |                |  |  |
|          | 70       |          |          |          | L  | _  | _              | L        |  |                |  |  |
|          | 71       |          |          |          | _  |  | ļ              | <u> </u> |  |                |  |  |
|          | 72<br>73 |          |          | <u> </u> | ļ  | ļ  |                |          | _  | <u> </u>       |  |  |
|          | 74       |          |          | -        | -  | _  |                |          |  | -              |  |  |
|          | 75       | -        |          |          | ├  | ⊢  | -              | _        | $\vdash$   |                |  |  |
| _        | 76       |          |          | -        |  | -  | -              |          | $\vdash$   | $\vdash$       |  |  |
|          | 77       |          |          | -        |  |  | <del>  -</del> | _        | <del>                                     </del> |                |  |  |
|          | 78       |          |          |          |  | _  |                |          |  |                |  |  |
|          | 79       |          |          |          |  |  | П              |          |  |                |  |  |
|          | 80       |          |          |          |  |  |                |          |  |                |  |  |
|          | 81       |          |          |          |  |  |                |          |  |                |  |  |
|          | 82       | _        |          |          | L  |  |                |          |  |                |  |  |
|          | 83       | _        |          |          |  |  |                | L_       | <u> </u>   | L              |  |  |
| ļ        | 84       | _        | _        | <u> </u> | _  | <u> </u>   | <del> </del>   | l_       | <u> </u>   | <u> </u>       |  |  |
| <u> </u> | 85       |          | <u> </u> | _        | <u> </u>   | <u> </u>   | L              | ļ        | ļ  | <del> </del> — |  |  |
|          | 86<br>87 | -        | <u> </u> |          | ┝  | -  | ⊨              |          | -  | ├              |  |  |
|          | 88       |          |          |          | ├  | ├—   | ╁              | ├        | ┢╌   | ├              |  |  |
|          | 89       |          |          | ⊢        |  | ╢  | ├              | -        | ╁  | -              |  |  |
|          | 90       | -        |          |          | <del>                                     </del> | -  | -              | -        | ┝  | ⊢              |  |  |
| <u> </u> | 91       |          | $\vdash$ |          |  | H  |                | -        | ╁┈   | $\vdash$       |  |  |
|          | 92       |          |          |          |  | <del>                                     </del> | H              | m        |  | $\vdash$       |  |  |
|          | 93       | Г        |          |          |  | T  | Г              | Ι.       |  | Г              |  |  |
|          | 94       |          |          |          |  |  |                |          |  |                |  |  |
|          | 95       |          |          |          |  |  | Ľ              |          |  |                |  |  |
|          | 96       |          |          |          |  |  |                |          |  |                |  |  |
|          | 97       | _        |          | <u> </u> |  | _  | <u> </u>       | L        | L  | $oxed{oxed}$   |  |  |
|          | 98       | <u>_</u> | L        |          | L  | _  | L              |          | $ldsymbol{f eta}$                                | <u> </u>       |  |  |
|          | 99       | _        | <u> </u> | <u> </u> | <u> </u>   | _  | ऻ_             | -        | ـ  | <b> </b>       |  |  |
| I        | 100      | 1        | ì        | 1        | ı  | 1  | 1              | 1        | 1  | I              |  |  |

| Cla      | Date                            |  |  |              |  |  |  |  |  |  |  |
|----------|---------------------------------|--|--|--------------|--|--|--|--|--|--|--|
|          |                                 |  |  |              |  |  |  |  |  |  |  |
| ē        | Original                        |  |  |              |  |  | - 1  |  |  |  |  |
| Final    | rig                             |  |  |              | ļ  |  |  |  |  |  |  |
|          | 0                               |  |  |              |  |  |  |  |  |  |  |
|          | 101                             |  |  |              |  |  |  |  |  | $\neg$   |  |
| <b></b>  | 102                             |  |  |              |  |  |  |  |  |  |  |
|          | 102<br>103                      |  |  |              |  |  |  |  |  |  |  |
|          | 104                             |  |  | _            |  |  |  |  |  | П  |  |
|          | 105                             |  |  |              |  |  |  |  | -  |  |  |
|          | 106                             |  |  |              |  |  |  |  |  |  |  |
|          | 107                             |  |  |              |  |  |  |  | -  |  |  |
|          | 108                             |  |  | $\vdash$     |  |  |  |  |  |  |  |
|          | 109                             |  |  |              |  |  |  |  | $\vdash$   |  |  |
|          | 110                             |  |  |              |  |  |  |  |  |  |  |
|          | 111                             |  |  |              |  |  | _  |  | _  | П  |  |
|          | 112                             |  |  |              | _  |  |  |  |  | М  |  |
|          | 113                             |  | 1  |              |  |  |  |  | l —  | П  |  |
| 1        | 114                             |  |  |              | П  |  |  |  |  | П  |  |
|          | 115                             | <del>                                     </del> |  |              |  |  |  |  | Ι.   | Н  |  |
|          | 115<br>116                      | $\vdash$   | <u> </u>   |              |  |  |  |  | <u>                                   </u>       | $\vdash$   |  |
|          | 117                             | t  | <u> </u>   |              |  |  |  |  | <b> </b>   | H  |  |
|          | 118                             |  |  |              | -  |  |  | -  |  | Н  |  |
|          | 118<br>119                      | <del>                                     </del> |  |              |  | $\vdash$   |  |  |  |  |  |
| $\vdash$ | 120                             | -  |  |              |  | $\vdash$   |  | <del></del>                                      |  | H  |  |
| -        | 121                             |  | <del>                                     </del> | <del> </del> | $\vdash$   | $\vdash$   |  |  |  | H  |  |
| -        | 121<br>122<br>123<br>124<br>125 | 1-   | -  | -            |  | $\vdash$   |  |  |  | Н  |  |
|          | 123                             |  | -  | -            |  |  | _  |  | $\vdash$   | -  |  |
|          | 124                             | <del> </del>                                     | ┢  |              |  |  |  |  | _  | Н  |  |
|          | 125                             | <del> </del>                                     | -  | -            |  |  |  |  | H  | Н  |  |
|          | 126                             |  | $\vdash$   |              |  |  |  |  | ┢  |  |  |
|          | 127                             |  |  |              |  |  |  | _  |  |  |  |
|          | 126<br>127<br>128               | <u> </u>   | -  |              |  |  | Г  |  | Г  |  |  |
|          | 129                             | ┢  | <del> </del>                                     | <b>-</b>     |  | _  |  |  |  |  |  |
| ·        | 129<br>130                      | $\vdash$   | _  |              |  |  |  |  |  |  |  |
|          | 131                             | T  |  | $\vdash$     | ┢  | ┪  |  | -  |  | -  |  |
|          | 132                             | $\vdash$   |  | 1-           |  |  |  |  |  | T  |  |
|          | 133                             | ╁┈   | -  | <del> </del> |  |  |  |  |  |  |  |
|          | 134                             | <del>                                     </del> | <del>                                     </del> |              | Г  |  |  |  | <del>                                     </del> |  |  |
|          | 134<br>135                      | Г  | T  | Г            | Г  | T  | <b>†</b>   |  | İ  | П  |  |
|          | 136                             |  |  |              | T  | <del> </del>                                     |  | <u> </u>   | T  | <del>                                     </del> |  |
|          | 137                             | <b>†</b>   | 1  |              | $\vdash$   | <del>                                     </del> |  | T  |  |  |  |
|          | 137<br>138<br>139               | $\vdash$   | $\vdash$   | 1            | <u> </u>   | T-   |  |  | T  |  |  |
|          | 139                             | T  | 1  | T            | t  | 1  |  |  | <del>                                     </del> | <b>†</b>   |  |
|          | 140                             | 1-   | 1  | t            | T  | 1  | T  | $\vdash$   | <del>                                     </del> | _  |  |
|          | 141                             | $\vdash$   | <del>                                     </del> | $\vdash$     | 1  | <b> </b>   | T  | -  | <u> </u>   | 1  |  |
|          | 142                             |  | $\vdash$   | $\vdash$     | t  | <b>†</b>   | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <b>†</b>   |  |
|          | 143                             | $\vdash$   | 1  | $t^-$        | t  | <b>†</b>   | 1  | 1  | T  | <b>†</b>   |  |
|          | 144                             | $\vdash$   | T  | $\vdash$     | ⇈  | t —  | $\vdash$   | $\vdash$   | t  | ļ  |  |
|          | 145                             | $\vdash$   |  |              | $t^-$  | $^{\dagger}$                                     | 1  | <del> </del>                                     | 1  | <b>†</b>   |  |
|          | 146                             | $\vdash$   | $\vdash$   | 1            | <del>                                     </del> | <u> </u>   | <del>                                     </del> | 1  | t  | $\vdash$   |  |
| -        | 147                             | T  |  | $\vdash$     | $\vdash$   | $\vdash$   | Н  | $\vdash$   | -  | $\vdash$   |  |
|          | 148                             | $\vdash$   | 1  | $\vdash$     | t  | t  | $\vdash$   | $\vdash$   | 1  | t  |  |
| $\vdash$ | 149                             | +-   | H  | 1            | <u> </u>   | t  |  | -  | +-   | <del>                                     </del> |  |
|          | 150                             | $\vdash$   |  | $\vdash$     | t  | <b>†</b>   | $\vdash$   | $\vdash$   | 1  | $\vdash$   |  |
|          | 1 .55                           |  | _  |              |  |  |  |  |  | L  |  |